AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of the claims in the application.

Listing Of Claims

Claim 1 (canceled)

Claim 2(canceled)

Claim 3 (canceled)

Claims 4-10 (canceled)

11. (Previously presented) A method of fabrication of etching a low -k dielectric layer, comprising the steps of :

a) forming an organic low k dielectric layer over an insulation layer over a substrate;

b) forming a masking pattern over said organic low k dielectric layer; said masking pattern having an opening;

c) using an etch process to etch said organic low k dielectric layer through said opening to form a first opening using said masking pattern as an etch mask; said etch process comprising:

(1) in a first step, etching said organic low k dielectric layer by applying a plasma power and flowing NH_3 and H_2 etch gasses and flowing O_2 or CO gasses.

Claim 12 (canceled)

13. (Previously presented) The method of claim 11 wherein said first step comprises:

a plasma power between 500 and 1500 W, plasma power plasma density between 1E9 and 1E11 cm^{-3}, a NH_3 flow between 50 and 300 sccm, a H_2 flow between 50 and 300 sccm and a pressure between 80 and 800 mTorr and flowing O_2 or CO gasses.

14. (Previously presented) The method of claim 11 wherein said organic low k dielectric is comprised of a material selected from the group consisting of fluorinated arylether,

Benzocyclobuthene (BCB), amorphous teflon, carbon doped oxides, poly arylene ether (PAE) and organic Spin on materials.

15. (original) The method of claim 11 wherein said organic low k dielectric is comprised of a material selected from the group consisting of fluorinated arylether, and poly arylene ether.

16. (original) The method of claim 11 wherein said organic low k dielectric is comprised of carbon doped oxide.

17. (original) The method of claim 11 wherein said organic low k dielectric is comprised of poly arylene ether (PAE).

18. (Previously presented) The method of claim 11 wherein said etch forms said first opening through said organic low k dielectric layer; said first opening having sidewalls defined by said organic low k dielectric layer; said sidewalls are substantially vertical at a angle between 87 and 93 degrees to the surface of the substrate; and said first step comprises:

a plasma power between 500 and 1500 W, plasma power plasma density between 1E9 and 1E11 cm^{-3}, a NH_3 flow between 50 and 300 sccm, a H_2 flow between 50 and 300 sccm and a pressure between 80 and 800 mTorr and flowing O_2 or CO gasses.

Claims 19-29 (canceled)